## Course Overview:

This course enables the student to explore mathematical content for personal, business, and industrial use. Math concepts and skills are applied through study and problem-solving activities in real-world situations in the following areas: banking, measurement, borrowing and investing, consumer purchases, and financial management. Appropriate business forms are used in each unit. Leadership development will be provided through FBLA or DECA.

## **Guiding/Essential Questions:**

- What roles do math skills play in career opportunities?
- Use the touch method on electronic calculators to solve real-world mathematical problems which relate to business and industry.
- Use mathematical operations to enable students to understand gross and net income and different methods of earning income.
- Research and analyze career opportunities requiring application of math skills.
- Demonstrate employability and social skills relative to the career cluster.
- Utilize activities of FBLA as an integral component of course content and leadership development.
- What is the importance of using technology (including but not limited to electronic calculator, pc, etc.) in computing interest, finance charges, installments, and salary calculations.
- Use calculators to solve real world mathematical problems which relate to business and industry.
- Apply math and communication skills with the technical content.
- Use mathematical operations to enable students to understand gross and net income and different methods of earning income.
- Demonstrate mathematical reasoning in figuring and recording checking and savings account transactions.
- Use mathematical reasoning to compare cash purchases, credit cards, charge accounts, markups, and discounts.
- Demonstrate mathematical reasoning in calculating various types of loans, investments, and interest, including compound interest.
- What is the importance of maintaining records of personal financial accounts?
- Use mathematical operations to enable students to understand gross and net income and different methods of earning income.
- Demonstrate mathematical reasoning in figuring and recording checking and savings account transactions.
- Use mathematical reasoning to compare cash purchases, credit cards, charge accounts, markups, and discounts.
- Demonstrate mathematical reasoning in calculating various types of loans, investments, and interest, including compound interest.
- Design and manipulate spreadsheets and graphs according to the availability of technology.

- Use mathematical problem solving to figure the costs involved in purchasing and maintaining a vehicle and a home and the methods of figuring depreciation.
- Identify and compare various types of insurance.
- How do you make sound consumer decisions in relation to purchasing and investing?
- Use mathematical operations to enable students to understand gross and net income and different methods of earning income.
- Demonstrate mathematical reasoning in calculating various types of loans, investments, and interest, including compound interest.
- Use mathematical problem solving to figure the costs involved in purchasing and maintaining a vehicle and a home and the methods of figuring depreciation.
- Identify and compare various types of insurance.
- Utilize activities of FBLA as an integral component of course content and leadership development.
- How do you relate mathematical applications to managerial relations?
- Use the touch method on electronic calculators to solve real-world mathematical problems which relate to business and industry.
- Apply math and communication skills within the technical content.
- Use mathematical operations to enable students to understand gross and net income and different methods of earning income.
- Recognize the opportunity to participate in Future Leaders of America as a productive group member.
- Use mathematical reasoning to compare cash purchases, credit cards, charge accounts, markups, and discounts.
- Design and manipulate spreadsheets and graphs according to the availability of technology.
- Demonstrate mathematical reasoning relating to personnel, production, sales, marketing, warehousing, and distribution.
- Demonstrate employability and social skills relative to the career cluster.
- Utilize activities of FBLA as an integral component of course content and leadership development.

## **Contributions by:**

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Mathematics for Business and Industry					
Academic	Guiding	Math Core	Correlation to the	Sample Activities	Sample
Expectations	Questions	Content	Program of Studies		Extensions for
•					Multi-Level
					Classrooms
Goal 1: Students	What roles do	Students will	Students will	Students will	2 33333 2 2 33
are able to use basic communication	math skills play in career	MA-H- 1.1.1 describe properties	• use the touch method on	job shadow a person in a position related to their	• Students of multi-levels
and mathematics skills for purposes and situations they will encounter throughout their lives.  1.1 – Students use reference tools such as dictionaries,	opportunities?	of, define, give examples of, and apply real numbers to both real-world and mathematical situations, and understand that irrational numbers, cannot be represented by	electronic calculators to solve real- world mathematical problems which relate to business and industry. • use	career cluster and will demonstrate in a PowerPoint presentation the description of the job with an emphasis on the math skills being utilized – i.e. calculate depreciation of equipment, compute simple/compound interest, bank statement	may be grouped for the job shadow experience  Research companies in the community and compare ratios of supervisors per
almanacs, encyclopedias, and computer reference programs and research tools such as interviews and surveys to find the information they need to meet specific demands, explore interests, or solve specific problems. 1.5-1.9 - Students use mathematics		terminating or repeating decimals.  MA-H-1.2.1 perform addition, subtraction, multiplication, and division with real numbers in problemsolving situations to specified accuracy.  MA-H-1.2.2 simplify real number	mathematical operations to enable students to understand gross and net income and different methods of earning income.  • research and analyze	reconciliation, and payroll: W4, Wages, Taxes, Benefits, Garnishments, Deductions, Retirement Benefits (Various Careers)  • calculate the number of supervisors needed at a ratio of one supervisor per 12 employees for a specific number of employees (Managers)  • analyze financial statements and calculate current ratio,	employees  Visit the U.S. Department of Labor website to obtain labor statistics  Have students gather their own data to calculate standard deviation

mathematics ideas and procedures to communicate, reason, and solve problems.  1.16 – Students use computers and other kinds of technology to collect, organize, and communicate information and ideas. Goal 2: Students shall develop their abilities to apply core concepts and principles from mathematics, the sciences, the arts, the humanities, social studies, practical living studies, and vocational	expressions such as those containing opposites, reciprocals, absolute values, exponents (integer), roots (square, cube), and factorials.  MA-H-1.3.2 understand how real number properties(identify, inverse, commutative, associative, distributive, closure) are used to simplify expressions and solve equations.  MA-H-1.3.3 understand how to use equivalence relations (reflexive, symmetric, transitive) and order elations (less than, greater than, equal to) to solve	career opportunities requiring application of math skills.  demonstrate employability and social skills relative to the career cluster.  utilize activities of FBLA as an integral component of course content and leadership development.	debit-equity ratio, return on capital, etc. (Accountant)  calculate the standard deviation of the mean of the number of defective products out of a sample number tested (Quality Control Supervisor)  explore dependent and independent variables by calculating things such as gross pay with hours worked (Payroll Clerk)  write and solve equations with two variables such as calculating gross pay based on salary plus commission (Sales Position)	Prepare for the FBLA Job Interview competitive event
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studies to what	problems using
they will	real numbers.
encounter	MA-H-1.34
throughout	understand how
their lives.	ratio and
<b>2.7</b> – Students	proportion can be
understand	used in a variety of
number	mathematical
concepts and	contexts, and to
use numbers	solve real-world
appropriately	problems.
and accurately.	MA-H-3.1.1
<b>2.8</b> – Students	understand how
understand	standard deviation
various	measures the
mathematical	scatter of a
procedures and	discrete set of real-
use them	world data.
appropriately	MA-H-3.1.2
and accurately.	recognize that
<b>2.36</b> – Students	curve fitting
use strategies	(linear, quadratic,
for choosing	exponential) can
and preparing	be used as a
for a career.	method of
101 a career.	describing and
	predicting from a
	set of data or
	scatter plot.
	Students will
	recognize the

appropriate curve	
for a particular set	
of data.	
MA-H-3.2.1	
analyze, interpret	
results, make	
decisions, and	
draw conclusions	
based on a set of	
data.	
MA-H-3.2.2	
plot a set of	
bivariate data and	
select an	
appropriate curve	
(linear, quadratic,	
exponential) of	
best fit.	
MA-H-3.2.3	
organize, display,	
and interpret	
statistical models	
(tables, graphs) of bivariate data.	
MA-H-3.3.1	
understand how	
outliers affect	
measures of	
central tendency.	
MA-H-3.3.4	
use data and curve	
of best fit to make	

116.1	$\overline{}$
and defend	
predictions.	
MA-H-4.1.1	
understand the	
concept of a	
function and roles of	
independent and	
dependent variables.	
MA-H-4.2.1	
solve linear	
equations and linear	
inequalities.	
MA-H-4.2.4	
create tables of	
numerical values of	
functions including	
linear, quadratic,	
absolute value,	
exponential, and	
simple piecewise	
such as some long	
distance phone rates.	
MA-H-4.3.1	
write and solve	
linear equations	
describing real-	
world situations.	
MA-H-4.3.2	
understand how	
formulas, tables,	
graphs, and	
equations If	
functions relate to	
each other.	
cuen onior.	

Academic	Guiding	Math Core	Correlation to the	Sample Activities	Sample
Expectations	Questions	Content	Program of	bumple renvines	Extensions for
			Studies		Multi-Level
					Classrooms
Goal 1: Students are able to use basic communication and mathematics skills for purposes and situations they will encounter through their lives.  1.5-1.9 — Students use mathematics ideas and procedures to communicate, reason, and solve problems.  1.16 — Students	What is the importance of using technology (including but not limited to electronic calculator, pc, etc.) in computing  interest  finance charges  installments  salary calculations	Students will MA-H-1.1.1 describe properties of, define, give examples of, and apply real numbers to both real-world and mathematical situations, and understand that irrational numbers cannot be represented by terminating or repeating decimals. MA-H-1.2.1	Students will  use calculators to solve real world mathematical problems which relate to business and industry.  Apply math and communication skills within the technical content.  Use mathematical operations to enable students to understand	Students will  apply real numbers to real world situations in relation to calculating income, maintaining checking and savings accounts, taxes, interest, elapsed time, making change, and fractional parts of a year utilizing a spreadsheet software and the electronic calculator.  learn about inequalities by calculating social security deductions utilizing spreadsheet software.  calculate a finance charge on a store credit card using the ratio of \$18.90 per \$100 of	<ul> <li>Classrooms</li> <li>Have students do a simulation and project the value of an IRA in the year 2030.</li> <li>Guest speakers: insurance agents, financial planners, bank managers, accountants, stock brokers</li> <li>Students will research social security and</li> </ul>
use computers and other kinds of technology to collect, organize, and communicate information and ideas.		perform addition, subtraction, multiplication, and division with real numbers in	gross and net income and different methods of earning income.  • Demonstrate mathematical reasoning in	<ul> <li>merchandise and compare the cash purchase price</li> <li>investigate rates of change, for example, population increases and decreases over time or salary increases and decreases over time. Use the TI-83 to graph and make predictions.</li> </ul>	prepare a PowerPoint presentation about its future. Students will then prepare a letter using word

Goal 2: Students shall develop their abilities to apply core concepts and principles from mathematics, the sciences, the arts, the humanities, social studies, practical living studies, and vocational studies to what they will encounter throughout their lives.  2.7 – Students understand number concepts and use numbers appropriately and accurately.  2.8 – Students understand various mathematical procedures and use them appropriately and accurately.  2.10 – Students understand measurement	problem- solving situations to specified accuracy. MA-H-1.3.3 understand how to use equivalence relations (reflexive, symmetric, transitive) and order relations (less than, greater than, equal to) to solve problems using real numbers. MA-H-1.3.4 understand how ratio and proportion can be used in a variety of mathematical contexts and to solve real-world problems. MA-H-3.2.1	figuring and recording checking and savings account transactions.  Use mathematical reasoning to compare cash purchases, credit cards, charge accounts, markups, and discounts  Demonstrate mathematical reasoning in calculating various types of loans, investments, and interest, including compound interest.  Design and manipulate spreadsheets and graphs according to the availability of technology.	<ul> <li>be directed to a website that contains a graph and will interpret, draw conclusions, and answer predetermined questions.</li> <li>use TI-83 or spreadsheet software to organize two variable data into a table and graph for display and interpretation.</li> <li>design a spreadsheet that will compute the earnings of a salesperson that are paid monthly on a graduated commission basis. The spreadsheet will include formulas that use subtraction, multiplication, the IF function, and the SUM function.</li> <li>compile a list of costs associated with purchasing a home or car and calculate the depreciation expenses, monthly payment, insurance, etc.</li> </ul>	so s	processing software to seend to elected government officials. Prepare a Job Description Manual for FBLA.
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measurement concepts and use measurement appropriately and accurately.

Academic	Guiding	Math Core	Correlation to the	Sample Activities	Sample Extensions
Expectations	Questions	Content	Program of		for
	<b>C</b> 3.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2		Studies		Multi-Level
					Classrooms
Goal 1: Students are able to use basic communication and mathematics skills for purposes and situations they will encounter throughout their lives.  1.5-1.9 — Students use mathematical ideas and procedures to communicate, reason, and solve problems.	What is the importance of maintaining records of personal financial accounts?	Students will MA-H-1.1.1 describe properties of, define, give examples of, and apply real numbers to both real-world and mathematical situations, and understand that irrational numbers cannot be represented by terminating or repeating	Students will  use mathematic al operations to enable students to understand gross and net income and different methods of earning income. demonstrate mathematic	<ul> <li>Students will</li> <li>use real number properties to reconcile a bank statement and check register. The equation is Adjusted Balance = Statement Balance - Outstanding Checks + Outstanding Deposits</li> <li>use a linear inequality to determine the maximum number of checks that can be written in a month to avoid finance charges of a predetermined amount. Sample: .10 (x-10) + \$4≤ \$8 where x is the number of checks written.</li> <li>calculate interest in two ways:</li> </ul>	Multi-Level Classrooms  Analyze your phone bill and determine what type of long distance service you will need. Research MCI, BellSouth, or ATT and determine which phone service you would use. Develop a personal financial plan Guest Speaker:
1.16 – Students use computers and other kinds of technology to collect, organize, and communicate information and ideas.		decimals.  MA-H-1.2.1 perform addition, subtraction, multiplication, and division with real numbers in	al reasoning in figuring and recording checking and savings account transactions.	simple and compound of an initial investment over a set amount of time. Graph and select a curve of best fit of the following: simple interest vs. time and then compound interest over time.  • calculate a function identifying the dependent and independent	Insurance agent that will share information about various types of insurance  • The Secret of Becoming a Millionaire

Goal 2: Students shall develop their abilities to apply core concepts and principles from mathematics, the sciences, the arts, the humanities, social studies, practical living studies, and vocational studies to what they will encounter throughout their lives.  2.7 – Students understand number concepts and use number appropriately and accurately.  2.8 – Students understand various mathematical procedures and use them appropriately and accurately.  2.11 – Students understand mathematical mathematical	problem- solving situations to specified accuracy MA-H-1.3.2 understand how real number properties (identify, inverse, commutative, associative, distributive, closure) are used to simplify expressions and solve equations. MA-H-1.3.3 understand how to use equivalence relations (reflexive, symmetric, transitive) and order relations (less than, greater than, equal to) to solve problems	mathematic al reasoning to compare cash purchases, credit cards, charge accounts, markups, and discounts.  • demonstrate mathematic al reasoning in calculating various types of loans, investments, and interest, including compound interest.  • design and manipulate spreadsheets and graphs according to the availability	variables, i.e. unit price = price per time divided by measure or count  • write a two variable equation to represent the amount of a leasee payment if the lease must pay \$17 per \$1,000. EXAMPLE: x = lease payment, y = total cost of car x = \$17.00 (y/1000)  • produce a spreadsheet that shows how formulas, tables, graphs, and equations of functions relate to each other; such as, calculation of average daily balance and finance charge  • calculate the lowest percent of salary increase one can receive before moving to a higher tax bracket	Millionaire (simulation), Money Math: Lessons for Life by Mary C. Suiter and Sarapage M. Corkle
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mathematical change concepts and use them appropriately and accuracy.  2.12 – Students understand mathematical structure concepts mathematical sustems.	using real numbers MA-H-1.3.4 understand how ratio and proportion can be used in a variety of mathematical contexts and to solve real-world problems. MA-H-3.2.1 analyze, interpret results, make decisions, and draw conclusions based on a set of data. MA-H-3.2.2 plot a set of bivariate data and select an appropriate curve (linear, quadratic, exponential) of best fit. MA-H-3.2.3 organize,	of technology.  use mathematic al problem solving to figure the costs involved in purchasing and maintaining a vehicle and a home and the methods of figuring depreciation .  identify and compare various types of insurance.		
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1'1	
display, and	
interpret	
statistical models	
(tables, graphs)	
of bivariate data.	
MA-H-4.1.1	
understand the	
concept of a	
function and	
roles of	
independent and	
dependent	
variables.	
MA-H-4.2.1	
solve linear	
equations and	
linear	
inequalities.	
MA-H-4.3.1	
write and solve	
linear equations	
describing real-	
world situations.	
MA-H-4.3.2	
understand how	
formulas, tables,	
graphs, and	
equations of	
functions arising	
from real-world	
situations	
Situations	

Goal 2: Students shall develop their abilities to apply core concepts and principles from mathematics, the sciences, the arts, the humanities, social studies, practical living studies, and vocational studies to what they will encounter throughout their lives. 2.7 – Students understand number concepts and use numbers appropriately and accurately. 2.8 – Students understand various mathematical	with real numbers in problem- solving situations to specified accuracy. MA-H-1.2.2 Students will simplify real number expressions such as those containing opposites, reciprocals, absolute values, exponents (integer), roots (square, cube), and factorials. MA-H-1.3.3 Students will understand how to use equivalence relations (reflexive, symmetric, transitive) and order relations	costs involved in purchasing and maintaining a vehicle and a home and the methods of figuring depreciation.  • identify and compare various types of insurance.  • utilize activities of FBLA as an integral component of course content and leadership development.	•	research and collect data to plot. Draw a curve of best fit. Make predictions based on the curve of best fit. For example, predict number of accidents for a specified age or year based on automobile accident data. Be sure to discuss outliers.  use the above data to write a paper on how this affects future insurance rates.  use a spreadsheet to calculate monthly interest, principal amount, and new balance using the following criteria:  Loan amount \$15,000  Interest rate 8%  Monthly Payment \$250.00  will create a table reflecting compound interest earned over time	
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procedures and	(less than,		
use them	greater than,		
appropriately	equal to) to		
and accurately.	solve problems		
2.10 – Students			
	using real		
understand	numbers.		
measurement	MA-H-1.3.4 Students will		
concepts and			
use	understand how		
measurement	ratio and		
appropriately	proportion can		
and accurately.	be used in a		
<b>2.11</b> – Students	variety of		
understand	mathematical		
mathematical	contexts and to		
change concepts	solve real-world		
and use them	problems.		
appropriately	MA-H-3.1.1		
and accurately.	Students will		
and accuratery.	understand how		
	standard		
	deviation		
	measures the		
	scatter of a		
	discrete set of		
	real-world data.		
	MA-H-3.1.2		
	Students will		
	recognize that		
	curve fitting		
	(linear,		

quadratic,	
exponential) can	
be used as a	
method of	
describing and	
predicting from a	
set of data or	
scatter plot.	
Students will	
recognize the	
appropriate curve	
for a particular	
set of data.	
MA-H-3.2.1	
Students will	
analyze, interpret	
results, make	
decisions, and	
draw conclusions	
based on a set of	
data.	
MA-H-3,2.3	
Students will	
organize, display,	
and interpret	
statistical models	
(tables, graphs)	
of bivariate data.	
MA-H-3.3.1	
Students will	
understand how	
outliers affect	
measures of	
central tendency.	

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	MA-H-3.3.4		
	Students will use		
	data and curve of		
	best fit to make		
	and defend		
	predictions.		
	MA-H-4.1.1		
	Students will		
	understand the		
	concept of a		
	function and		
	roles of		
	independent and		
	dependent		
	variables.		
	MA-H-4.2.4		
	Students will		
	create tables of		
	numerical values		
	of functions		
	including linear,		
	quadratic,		
	absolute value,		
	exponential, and		
	simple piecewise		
	such as some		
	long distance		
	phone rates.		

Academic	Guiding	Math Core	Correlation to the	Sample Activities	<b>Sample Extensions</b>
Expectations	Questions	Content	Program of	-	for
			Studies		<b>Multi-Level</b>
					Classrooms
Goal 1: Students are able to use basic communication and mathematics skills for purposes and situations they will encounter throughout their lives.  1.5-1.9 – Students use mathematical ideas and procedures to communicate, reason, and solve problems.  1.16 – Students use computers and other kinds of technology to collect, organize, and communicate information and ideas.  Goal 2: Students shall develop their	How do you relate mathematical applications to managerial relations?	MA-H-1.1.1 Students will describe properties of, define, give examples of, and apply real numbers to both real-world and mathematical situations, and understand that irrational numbers cannot be represented by terminating or repeating decimals.  MA-H-1.2.1 Students will perform addition, subtraction, multiplication,	Students will  use the touch method on electronic calculators to solve real-world mathematical problems which relate to business and industry.  apply math and communication skills within the technical content.  use mathematical operations to enable students to understand gross and net income and different	<ul> <li>Students will</li> <li>use the electronic calculator to calculate an inventory and value of an inventory.</li> <li>write a linear equation for the formula used to forecast sales if the next month's sales are expected to increase by 5% from this month's sales of \$45,000.</li> <li>create a spreadsheet concerning warehousing and distribution. Column headings may include date, unit cost, quantity in and quantity out, and balance-on-hand.</li> <li>draw a quality control chart and determine whether the process is in or out of control based on given data and quality control criteria. This chart will be constructed in a spreadsheet (similar activities can be done with time study – number of</li> </ul>	<ul> <li>Form a small team and interview the manager of a store. Select three different products the store sells and ask how the reorder point is calculated for each product.</li> <li>Students can prepare financial statements for the FBLA chapter and make decisions on future chapter activities.</li> </ul>
abilities to apply		and division	methods of	units or time study – percent of	
core concepts and			earning income.	time).	
principles from		with real	<ul> <li>recognize the</li> </ul>	write the formula an employer	

throughout their lives.  2.7 – Students understand number concepts and use numbers appropriately and accurately.  2.8 – Students understand various mathematical procedures and use them appropriately and accurately.  2.10 – Students understand measurement concepts and use measurement appropriately and accurately.  2.10 – Students understand measurement concepts and use measurement appropriately and accurately.  2.10 – Students understand measurement students and use measurement appropriately and accurately.	participate in Future Leaders of America as a productive group member.  use mathematical reasoning to compare cash purchases, credit cards, charge accounts, markups, and discounts.  utive, e) are o simplify sions and equations.  1.3.3 ats will tand how  lence ns ive, etric, ive) and elations  participate in Future Leaders of America as a productive group member.  use mathematical reasoning to compare cash purchases, credit cards, charge accounts, markups, and discounts.  design and manipulate spreadsheets and graphs according to the availability of technology.  demonstrate mathematical applications relating to personnel, production, sales, marketing, warehousing, and distribution	uses to calculate a piece-rate gross pay where <i>n</i> represents the number of completed units, <i>r</i> represents the pay rate per unit, and <i>G</i> represents gross pay. Use the formula to find gross pay for 415 envelopes stuffed a rate of \$.20 each.  • plot data on years of post secondary education vs. salary (in thousands). Draw a curve of best fit. Use this curve to make predictions. Refer to Salary Expectations – Mathematics released open response.  • prepare a business plan for the FBLA competitive event.  • prepare a spreadsheet to calculate net price and cash price based on discounts.	
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equal solv usin num MA-Stude under ratio proper be un varion mathematics of MA-Stude and concept be under the context of decoration of decoration decoration in the concept of decoration d	• demonstrate employability and social skills relative to the career cluster. • utilize activities of FBLA as an integral component of course content and leadership development. • texts and to blems. • H-3.2.1 dents will lyze, erpret results, are decisions, draw clusions ed on a set lata. • H-3.2.2 dents will ta a set of ariate data select an ropriate		
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	urve (linear,	
	uadratic,	
ex	xponential) of	
	est fit.	
M	<b>ЛА-H-3.2.3</b>	
S	students will	
Oi	organize,	
di	lisplay, and	
in	nterpret	
st	tatistical	
m	nodels (tables,	
	raphs) of	
	ivariate data.	
M	/IA-H-4.1.1	
S	students will	
u	nderstand the	
co	oncept of a	
fu	unction and	
ro	oles of	
in	ndependent and	
	ependent	
	rariables.	
	<b>ЛА-H-4.2.1</b>	
S	students will	
Science	olve linear	
ec	quations and	
	inear	
	nequalities.	
	1A-H-4.3.1	
S	students will	
W	vrite and solve	

linear equations describing real- world situations. MA-H-4.3.2 Students will understand how formulas, tables, graphs, and equations of functions relate to each other.			
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